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(54) PNEUMATIC PRESSURE DETECTOR FOR TIRE

(57) Abstract:

PURPOSE: To detect the pneumatic pressure of a tire even when there is environmental variation by extracting a resonance frequency in a frequency range selected by means for selecting a frequency range depending on the vehicle speed.

CONSTITUTION: Each tire 1a-1d of a vehicle is provided, respectively, with a wheel speed sensor 2-5. Each sensor 2-5 comprises a gear 2a-5a and a pickup coil 2b-5b. The gear 2a-5a is fixed coaxially with the rotary shaft of each tire 1a-1d and made of a magnetic disc. The coil 2b-5b outputs an AC signal having a period in response to the rotational speed of the tire 1a-1d. AC signal outputted from the coil 2b-5b is fed to a microcomputer comprising CPU, ROM and RAM and an electronic controller 6 comprising a shaper circuit and predetermined signal processing is carried out including the shaping. Results of signal processing are delivered to a display section 7.

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